



日韓集中講義

The Short Intensive Course Program between UTokyo and SNU



学部 1 単位 / Undergraduate 1 Credit

FEN-CO5974L2 国際連携工学特別講義 X

International Collaborators' Lecture on Engineering X

大学院 1 単位 / Graduate School 1 Credit

3799-392 国際連携特別講義 XIX

International Collaborators' Special Lecture on Engineering XIX

Lecturer

Professor **Youngsub Lim**

Department of Naval Architecture
& Ocean Engineering,
College of Engineering,
Seoul National University
(SNU)



Understandings Environmentally-friendly Ships

Mon., July 29~Thu., August 1, 2024 (4days)

Course objectives

To learn the history of IMO regulation to reduce the GHG(greenhouse gas) emissions from ships, and how to estimate the GHG intensity. Also, to study the need for alternative fuels and the facing problems.

Lecture time

July 29~31 ... 9:00 ▶ 12:00

August 1 ... 9:00 ▶ 10:30

*After Lecture (afternoon):

Group Discussion(free for each group)

Lecture room

Eng. Bldg. No.3 #32

Language

English

Counterpart at UTokyo

Professor Kazuhiro Aoyama

Department of Systems Innovation,

The Research into Artifacts, Center for Engineering,

School of Engineering

Lecture plan

Day 1 <July 29 9:00-12:00>

- Climate Change and CO2
- GHG regulations for a ship
- Examples: EEDI

*After Lecture (afternoon):

Group Discussion(free for each group)

Day 2 <July 30 9:00-12:00>

- Alternative fuels?: LNG, Hydrogen and ammonia
- Alternative fuels?: bio-fuels and e-fuels
- Examples: GHG emissions intensity

*After Lecture (afternoon):

Group Discussion(free for each group)

Day 3 <July 31 9:00-12:00>

- Why CCUS (Carbon Capture, Utilization and Storage)?
- CCUS technologies and current status
- Examples: Carbon Capture Process

*After Lecture (afternoon):

Group Discussion(free for each group)

Day 4 <August 1 9:00-10:30>

- Group Presentation

工学系研究科国際工学教育推進機構

Institute for Innovation in International Engineering Education,
School of Engineering

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Registration is
now open!

Please use the QR code
to register.

